

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)

Masakazu OGASAWARA, et al.)

Application No.: 09/944,098)

Filed: September 4, 2001)

Group Art Unit: 2651

Examiner: Unassigned



For: OPTICAL PICKUP DEVICE AND FOCUS ERROR DETECTING METHOD THEREFOR

Commissioner for Patents
Washington, D.C. 20231

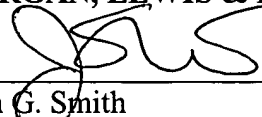
SUBMISSION OF FORMAL DRAWINGS

Filed herewith are twenty-six (26) sheets of formal patent drawings containing fifty (50) figures. It is requested that these drawings be approved and made part of the official record in the above-identified patent application.

If there are any fees due in connection with the filing of these drawings, please charge the fees to our Deposit Account No. 50-0310. If a fee is required for an extension of time under 37 C.F.R. 1.136 not accounted for above, such an extension is requested and the fee should also be charged to our Deposit Account.

Respectfully submitted,

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Reg. No. 33,818

Dated: December 4, 2001

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1800 M STREET, N.W.
WASHINGTON, D.C. 22036-5869
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3210

FIG. 1

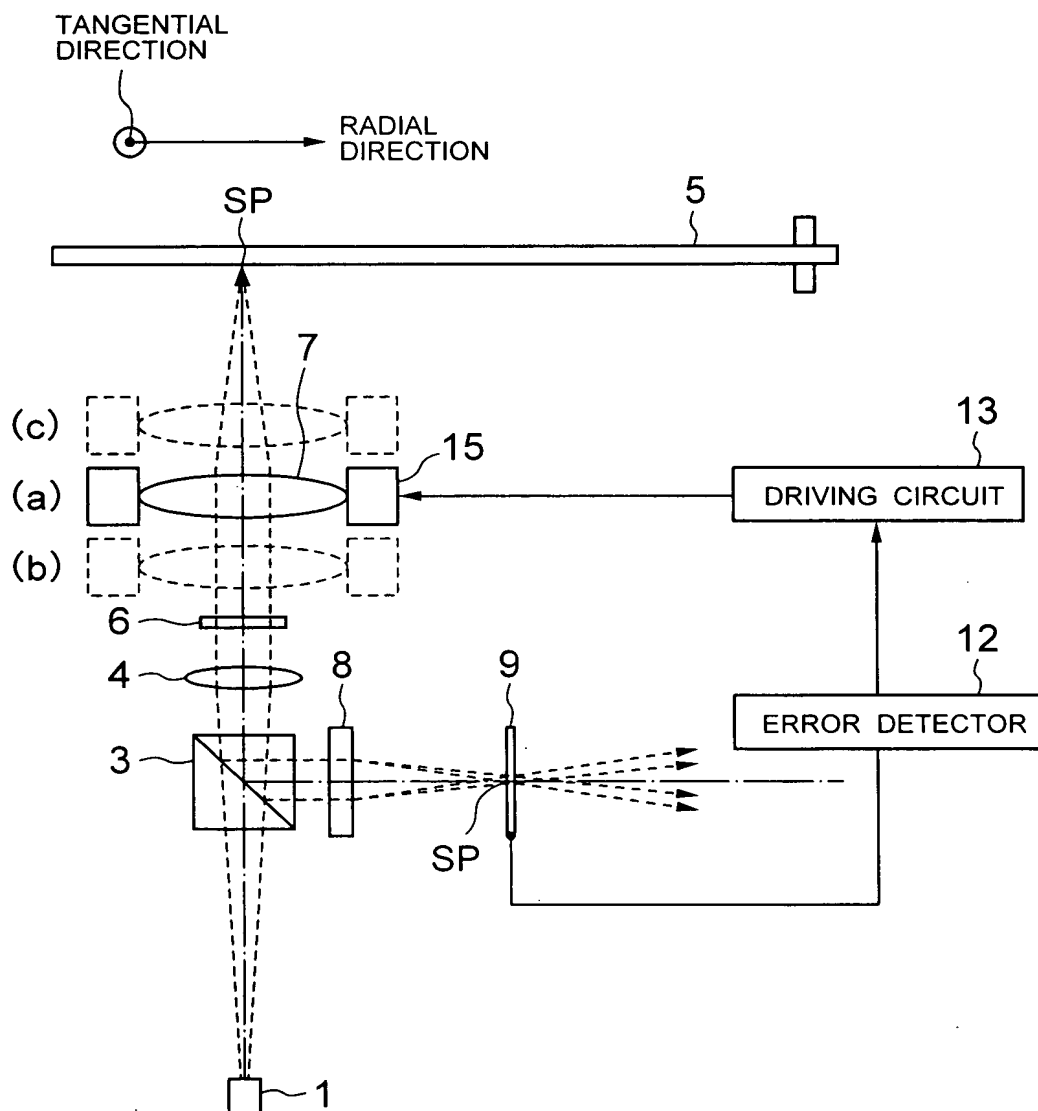
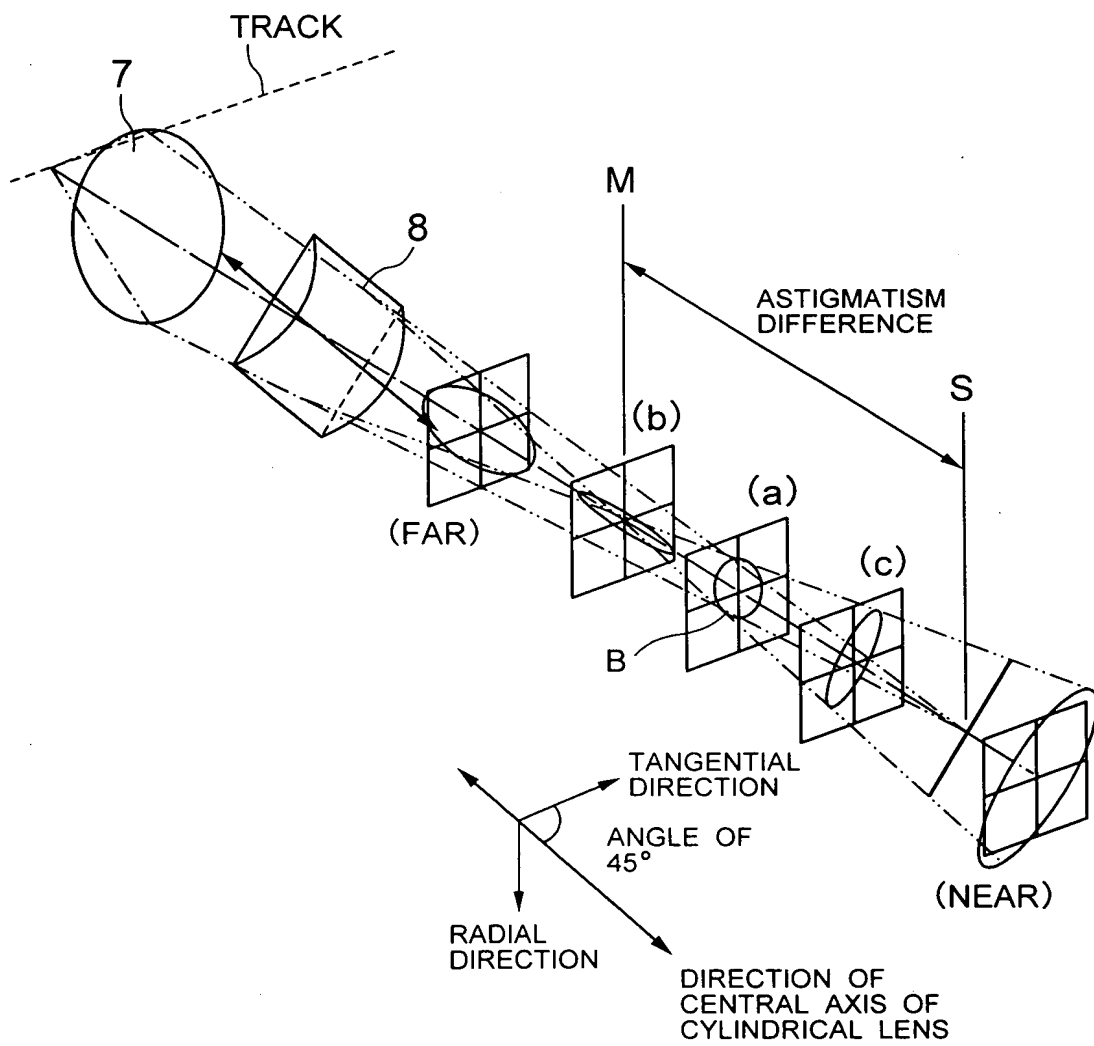


FIG. 2



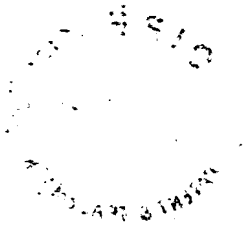
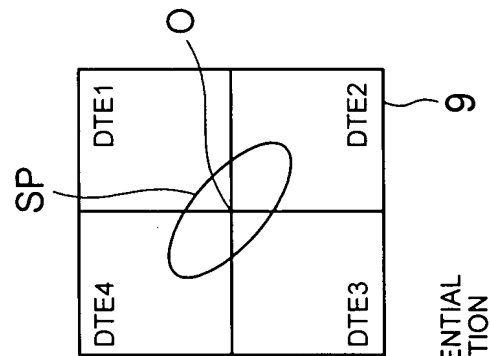
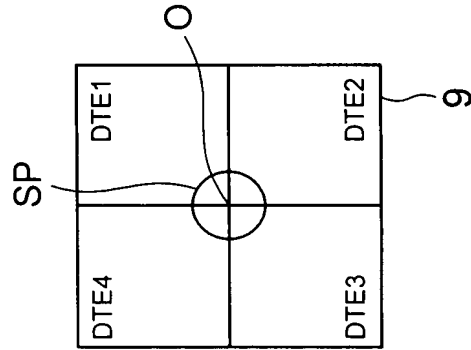
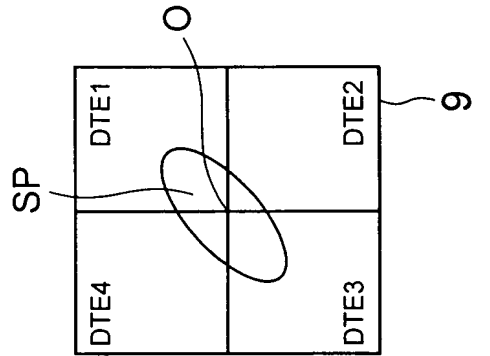


FIG. 3C
(NEAR)

FIG. 3A
(FOCUSED)

FIG. 3B
(FAR)



RADIAL
DIRECTION

TANGENTIAL
DIRECTION

FIG. 4

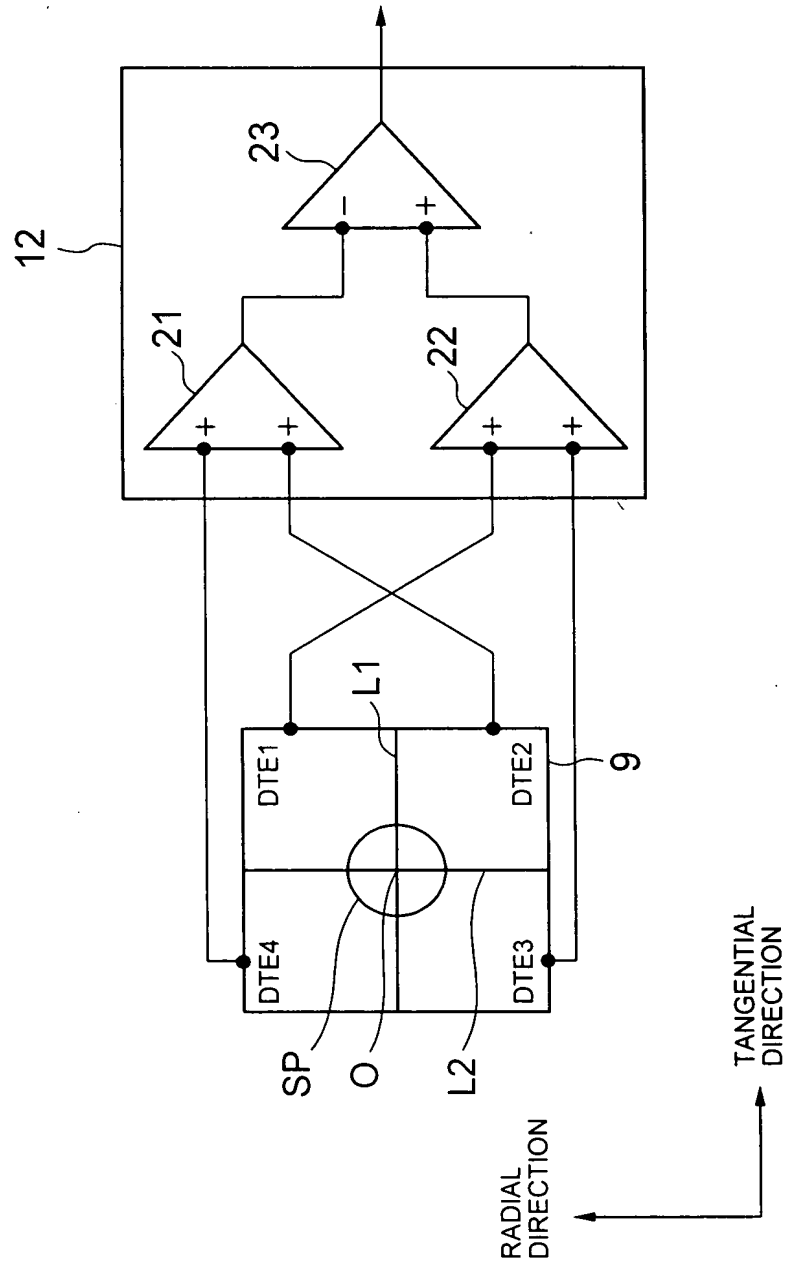


FIG. 5

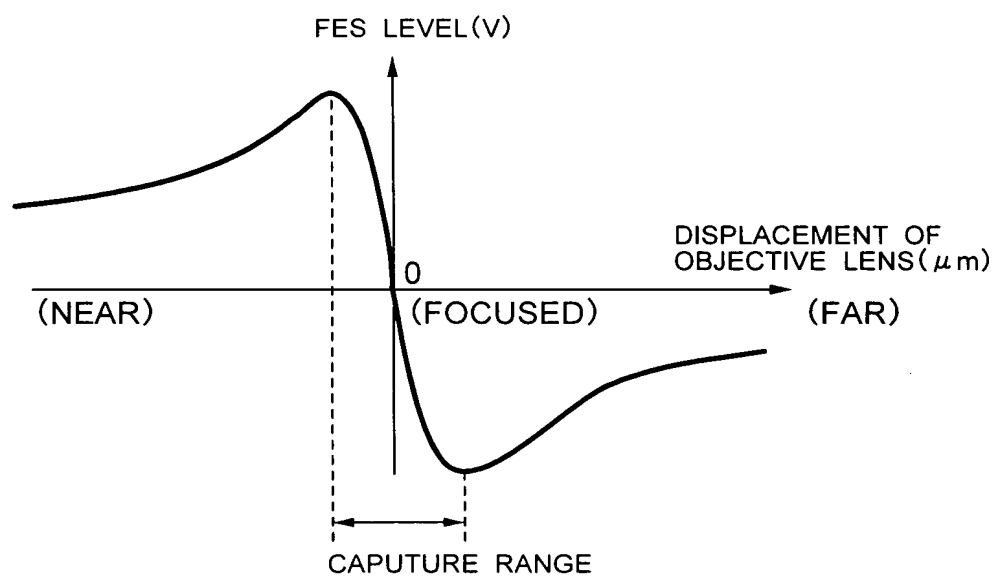


FIG. 5

FIG. 6

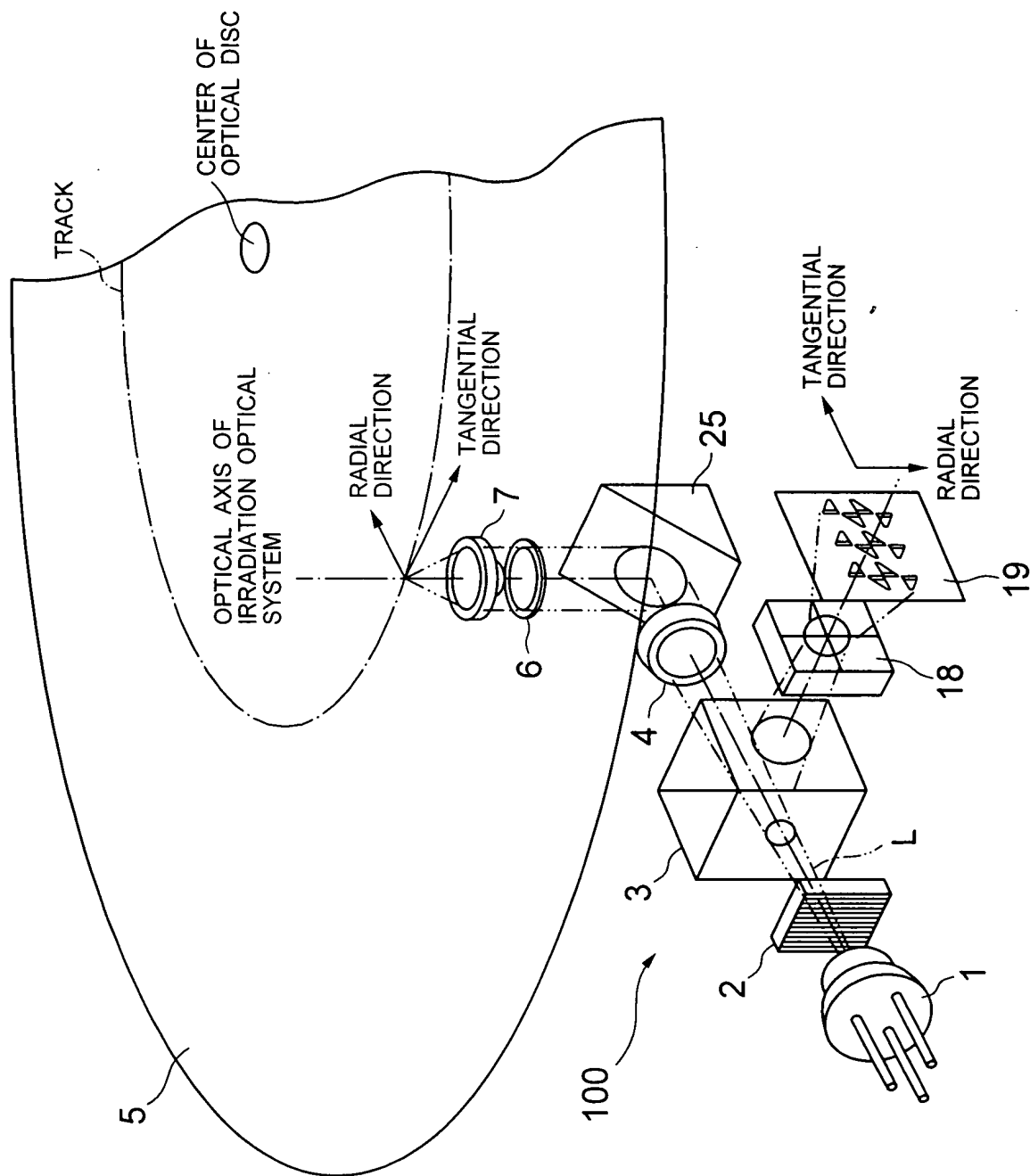


FIG. 7

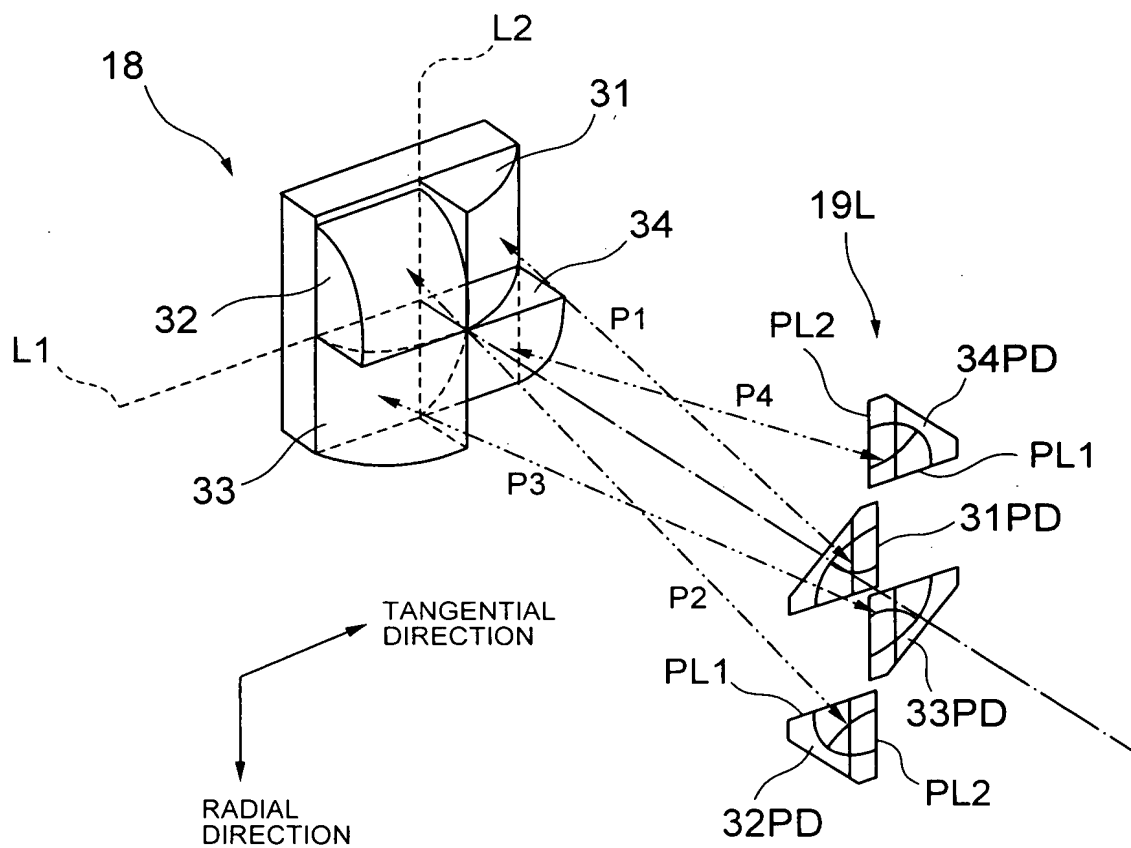


FIG. 8

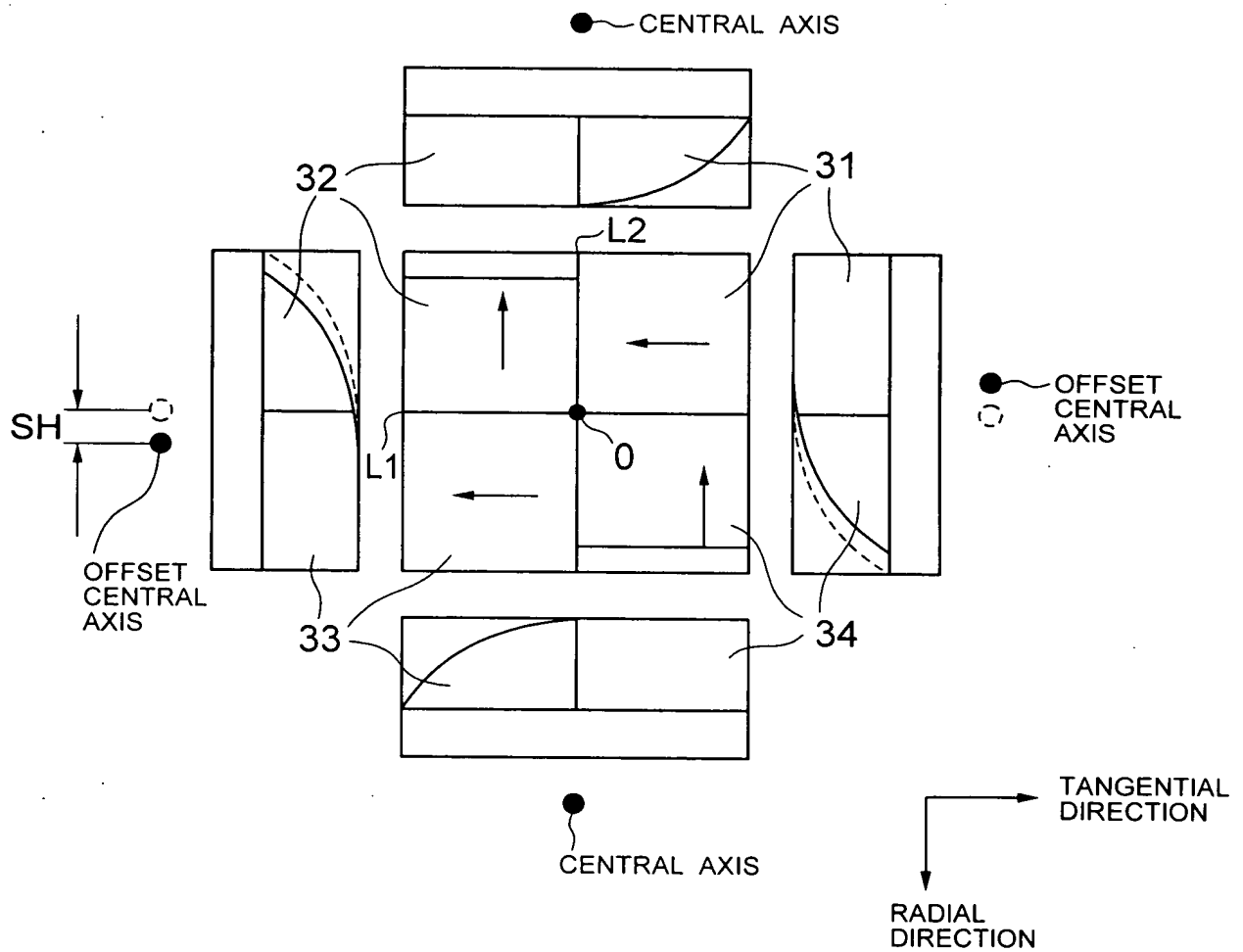


FIG. 9

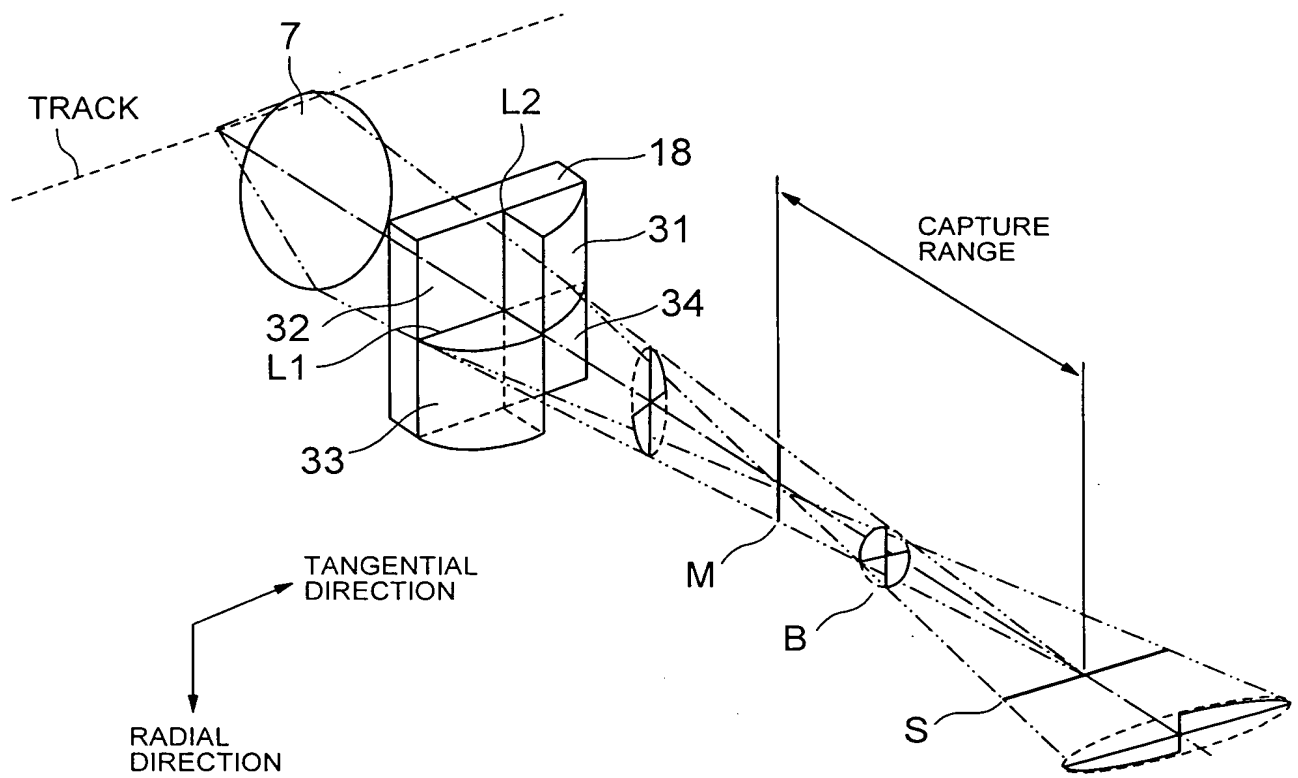


FIG. 9

FIG. 10

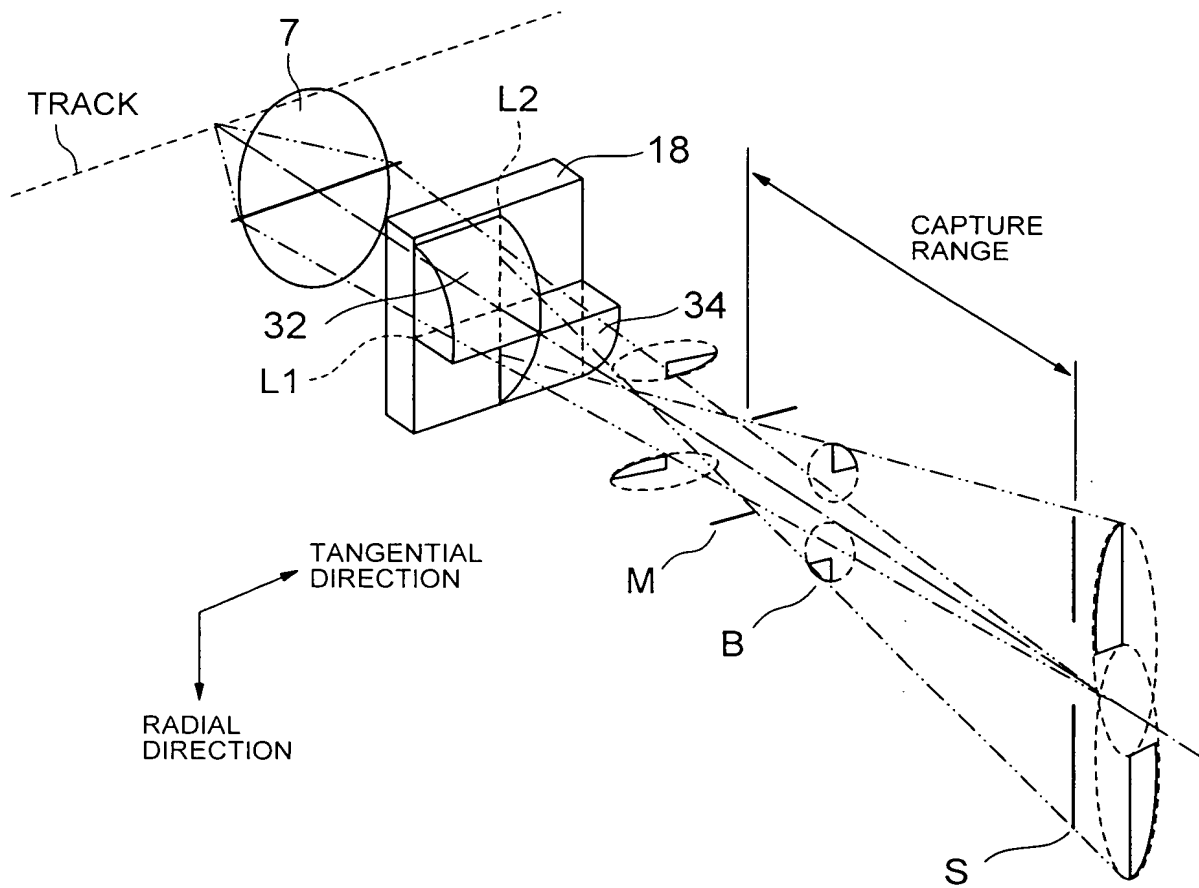


FIG. 11

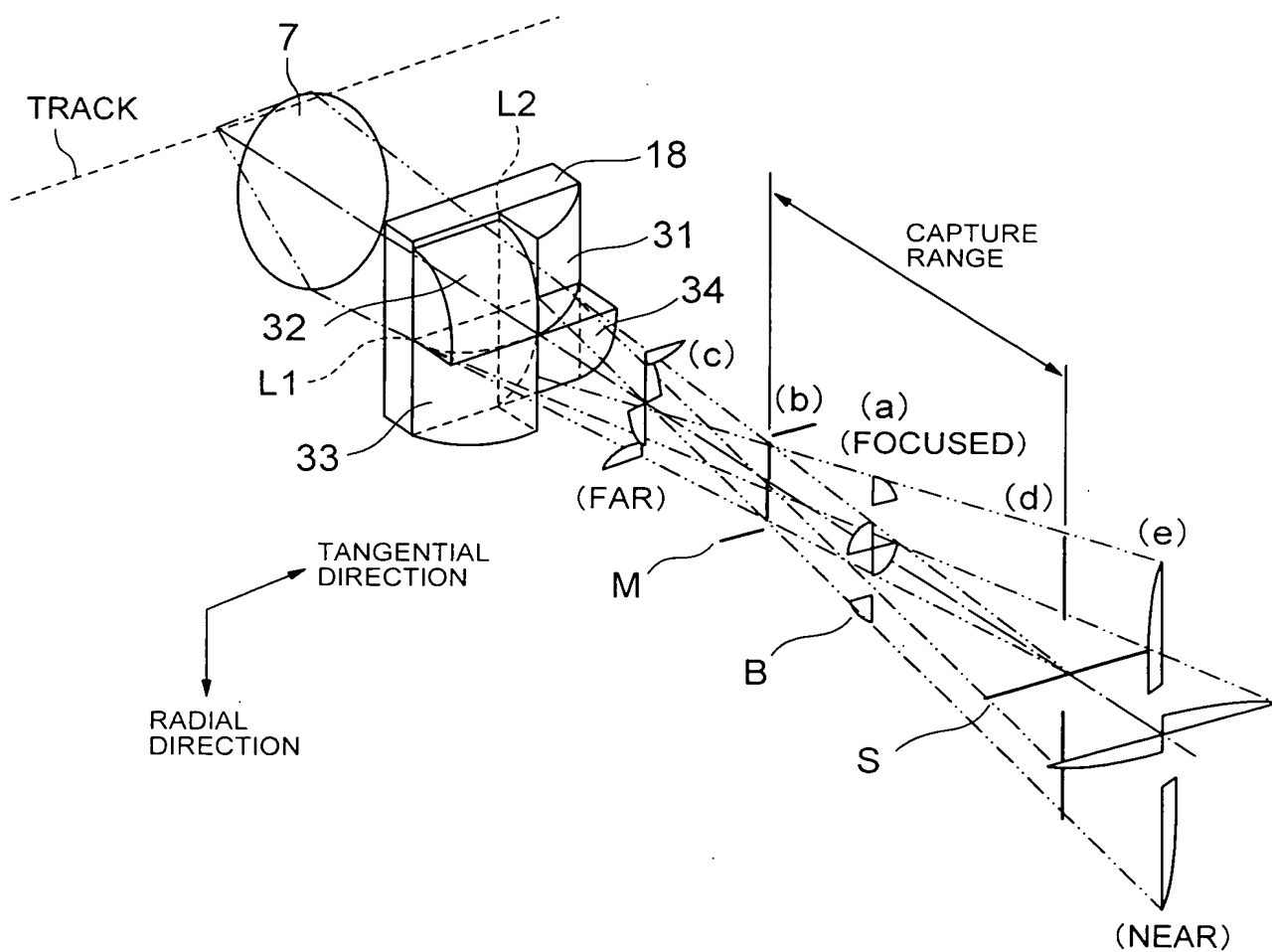
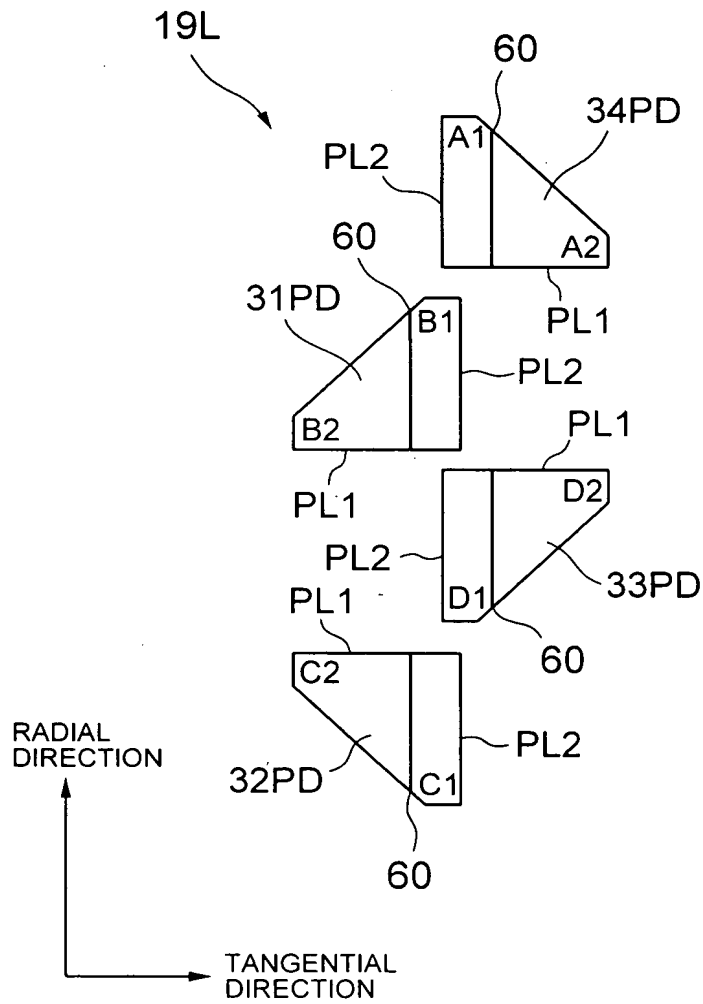


FIG. 12



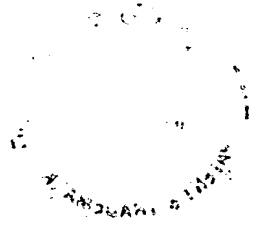


FIG. 13E
(NEAR)

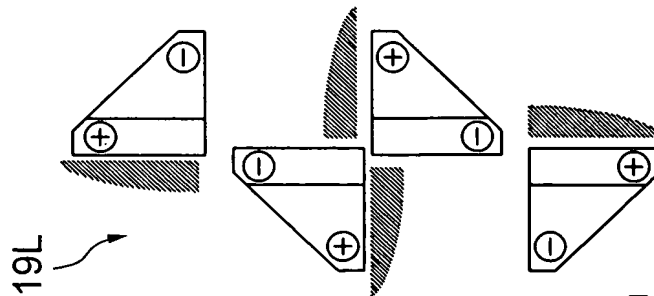


FIG. 13D

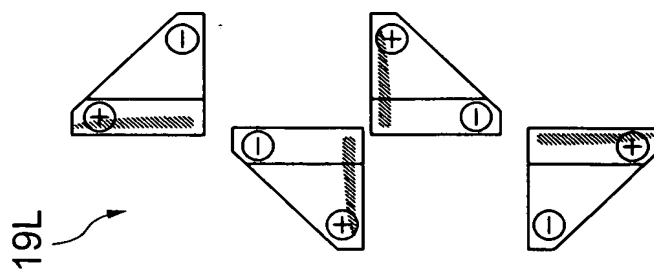


FIG. 13A
(FOCUSED)

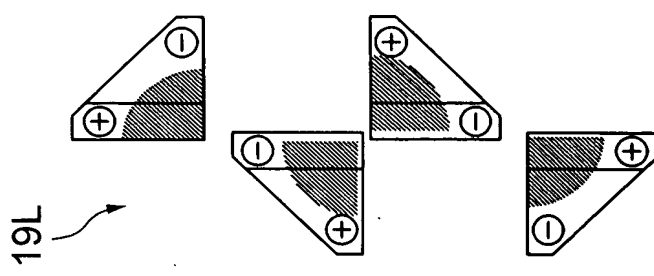


FIG. 13B

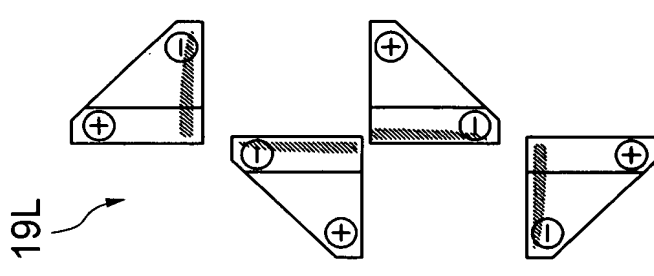


FIG. 13C
(FAR)

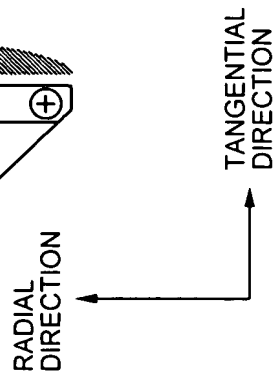
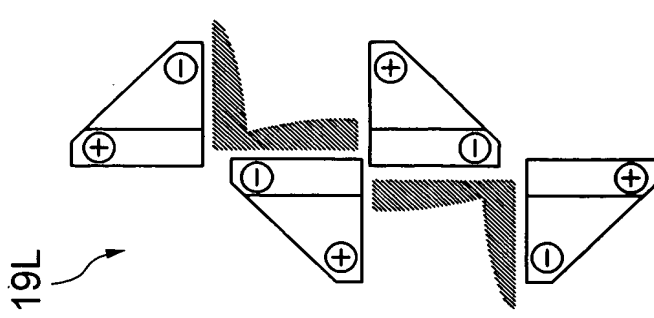


FIG. 14

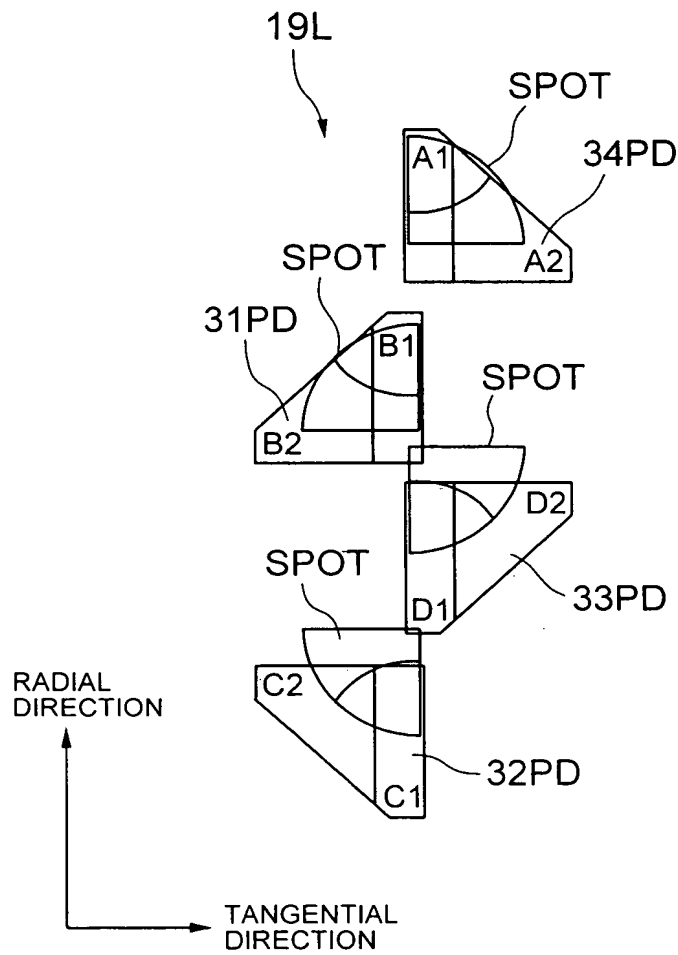


FIG. 15

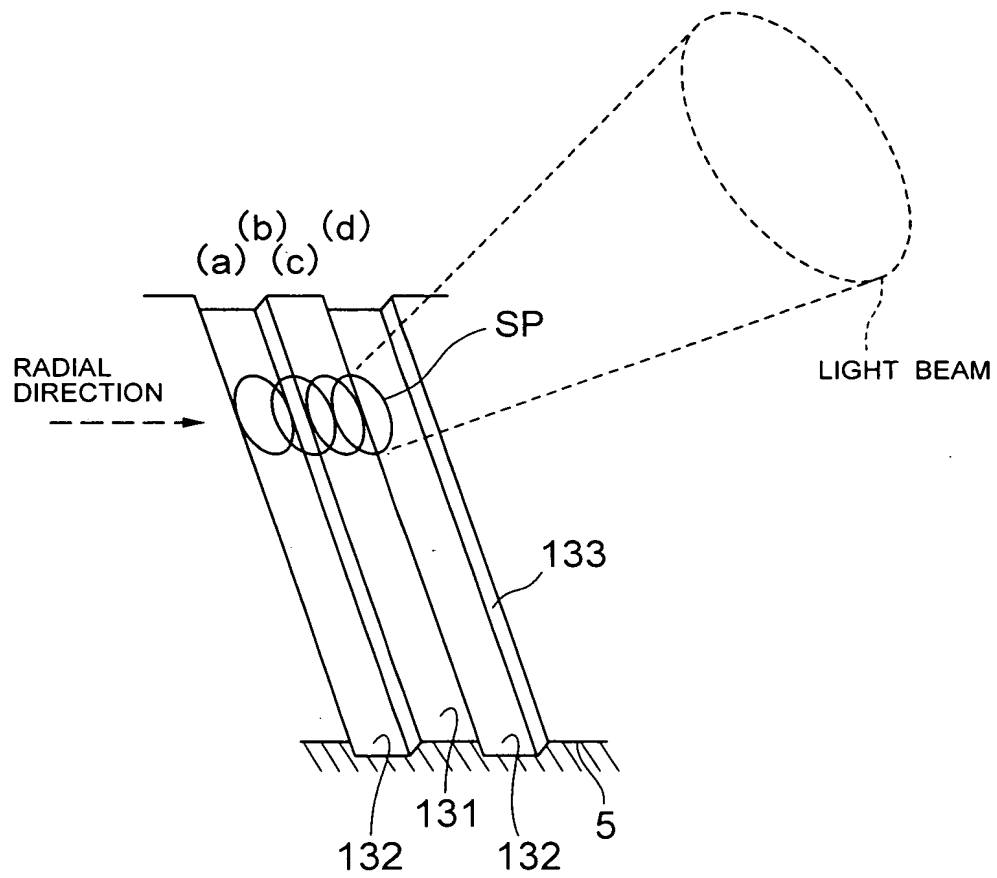


FIG. 16A FIG. 16B FIG. 16C FIG. 16D

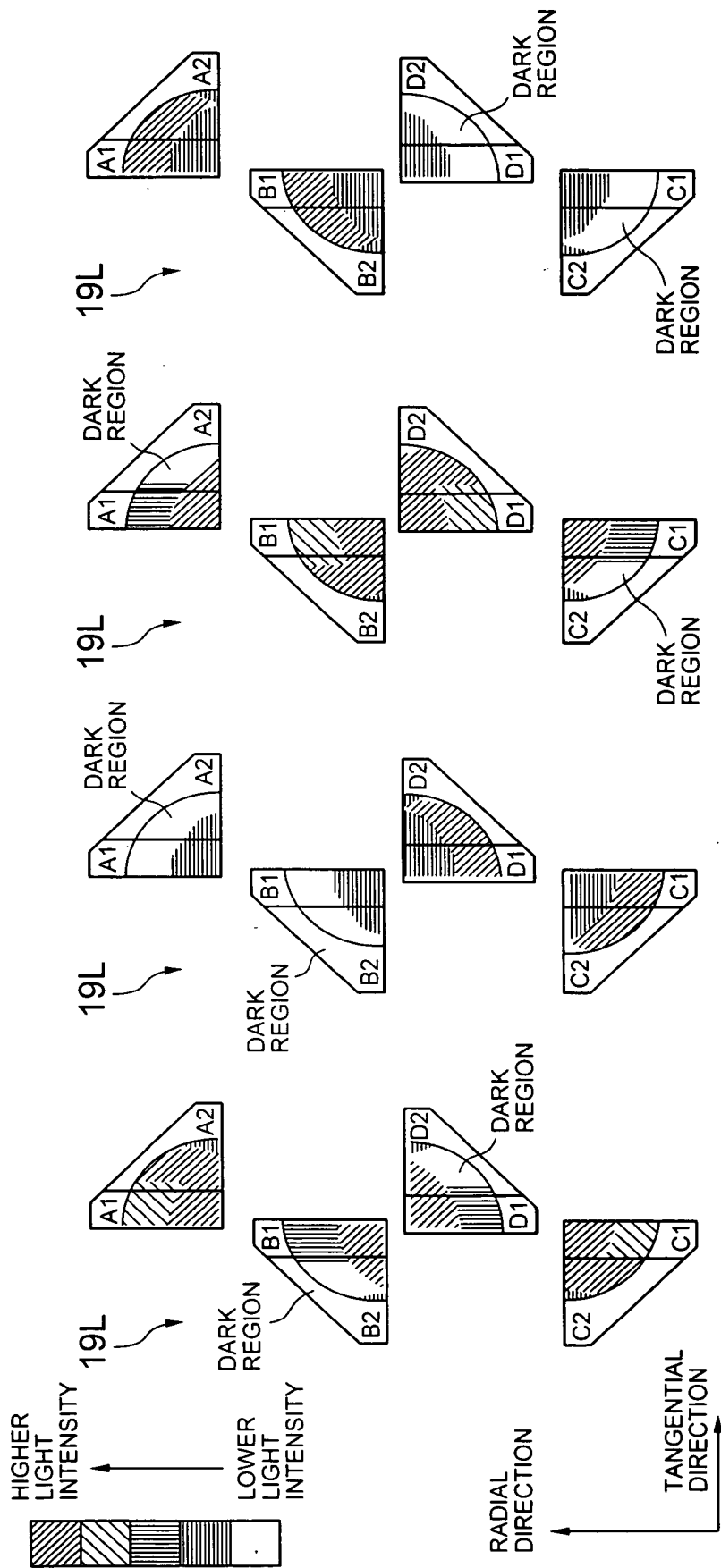


FIG. 17

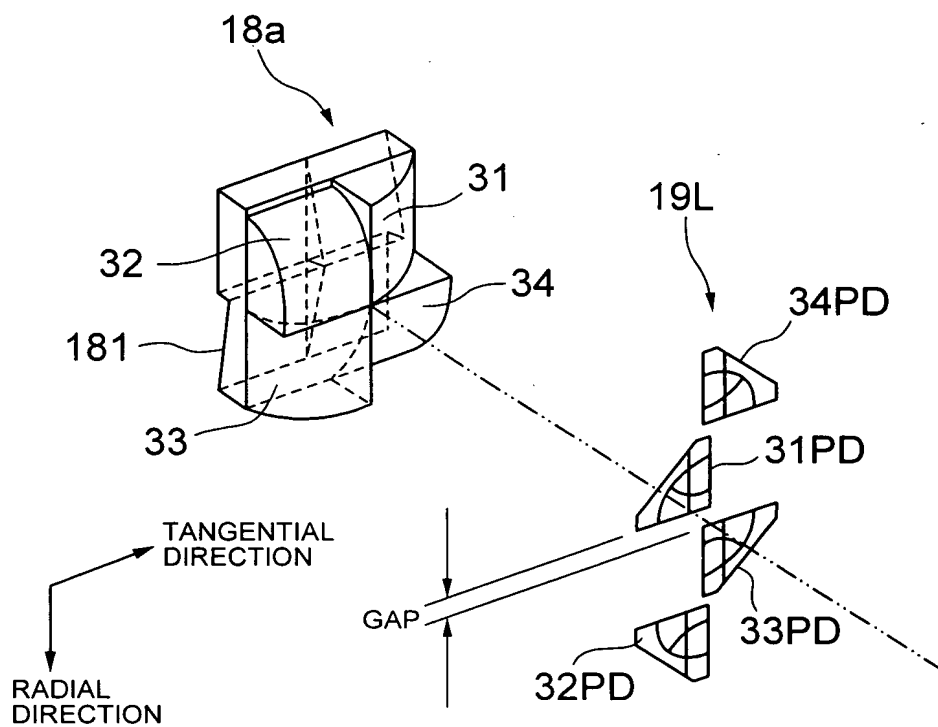


FIG. 18

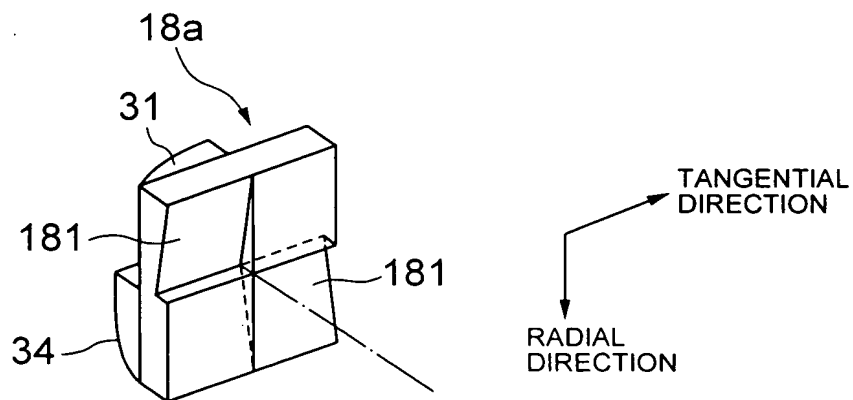


FIG. 19

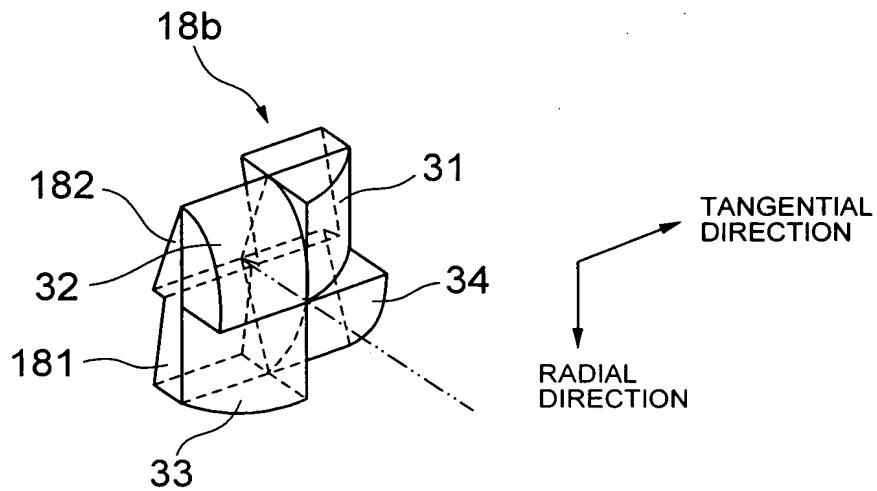


FIG. 20

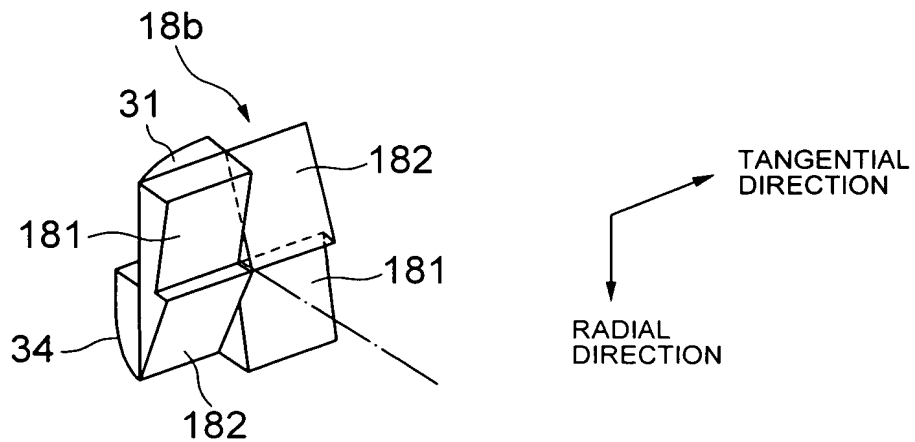


FIG. 21

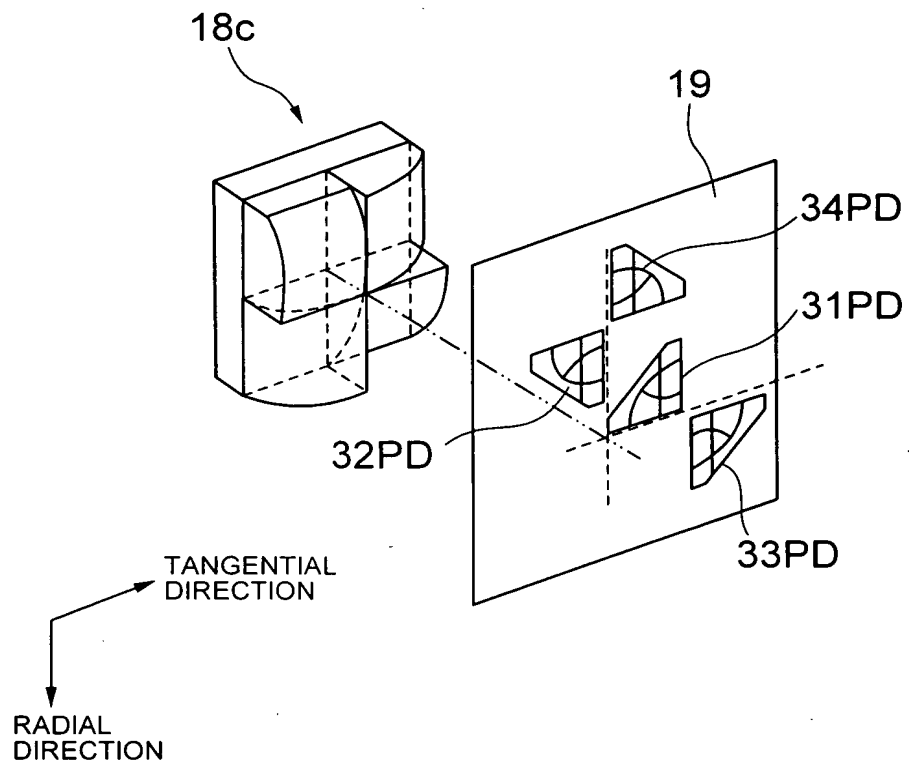


FIG. 22E

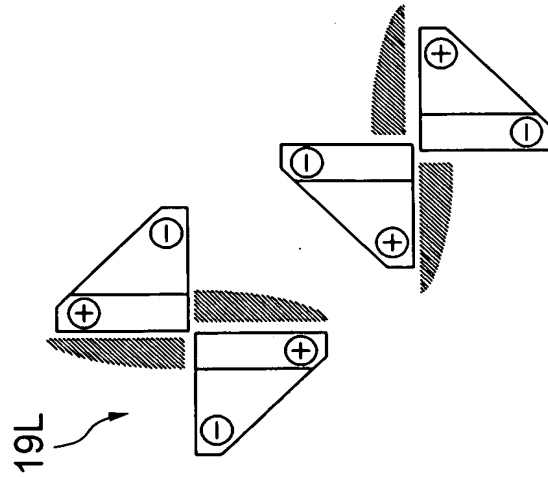


FIG. 22A

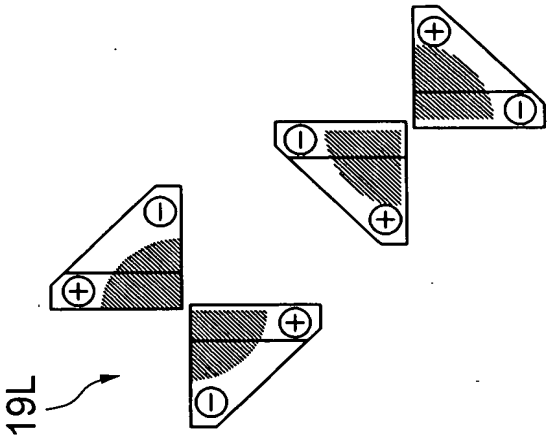


FIG. 22C

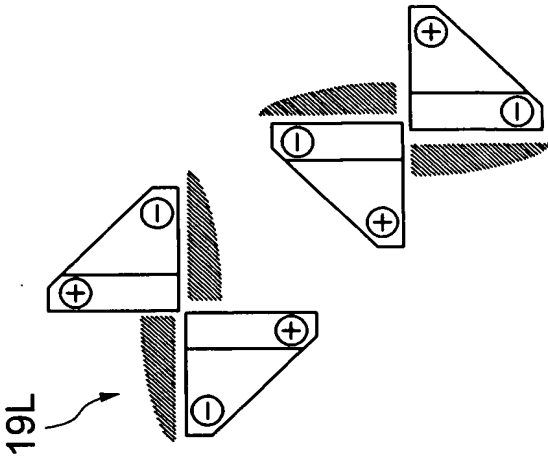


FIG. 22D

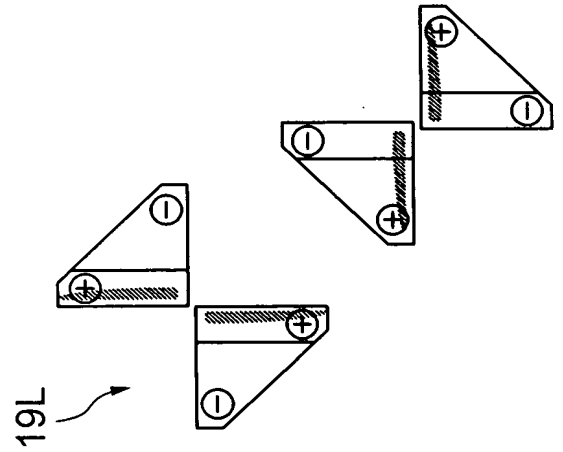


FIG. 22B

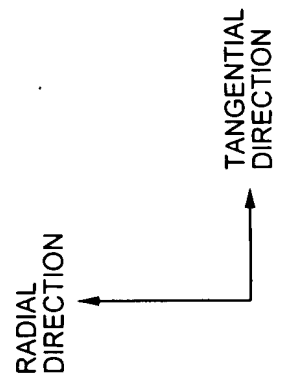
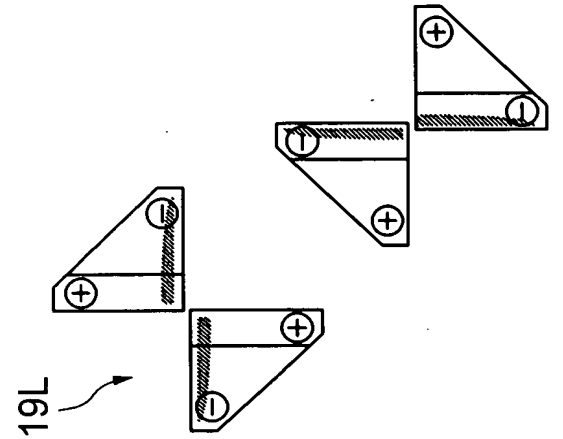


FIG. 23

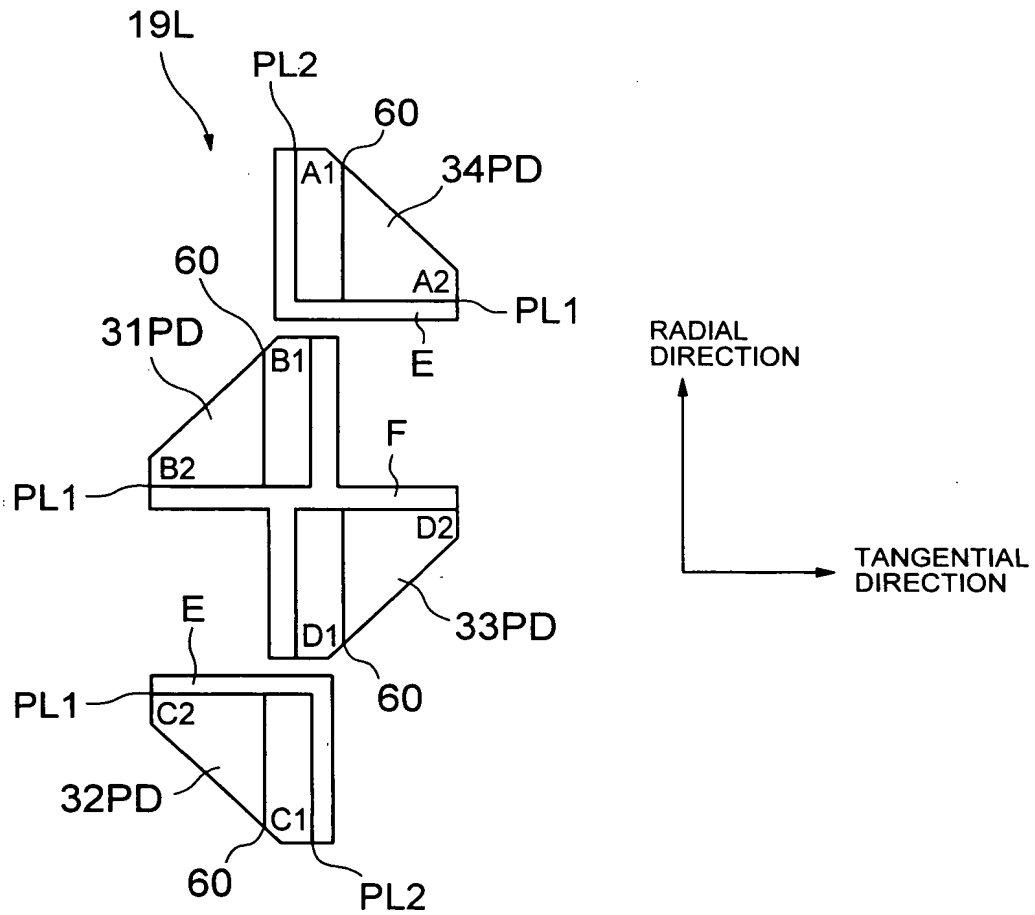


FIG. 24E FIG. 24D FIG. 24A FIG. 24B FIG. 24C

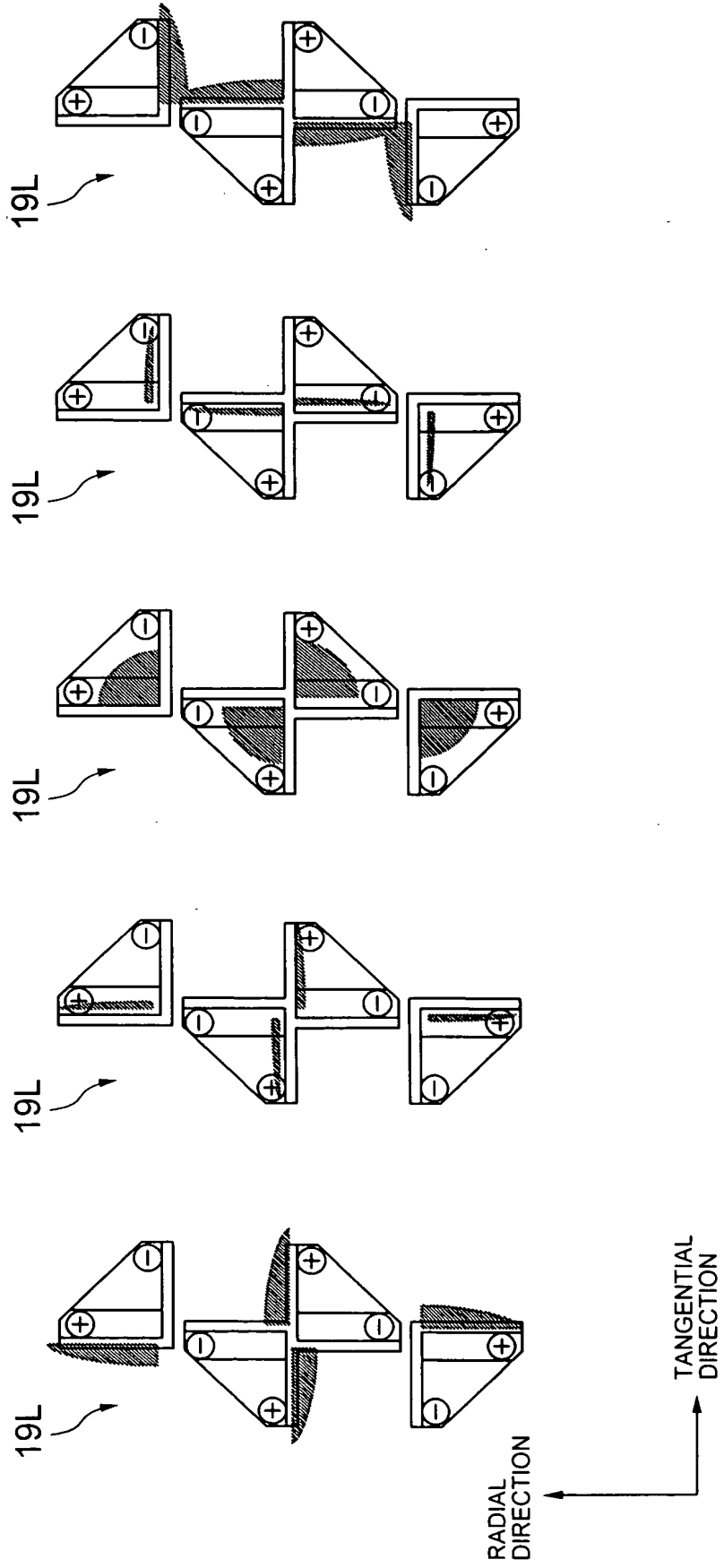


FIG. 25

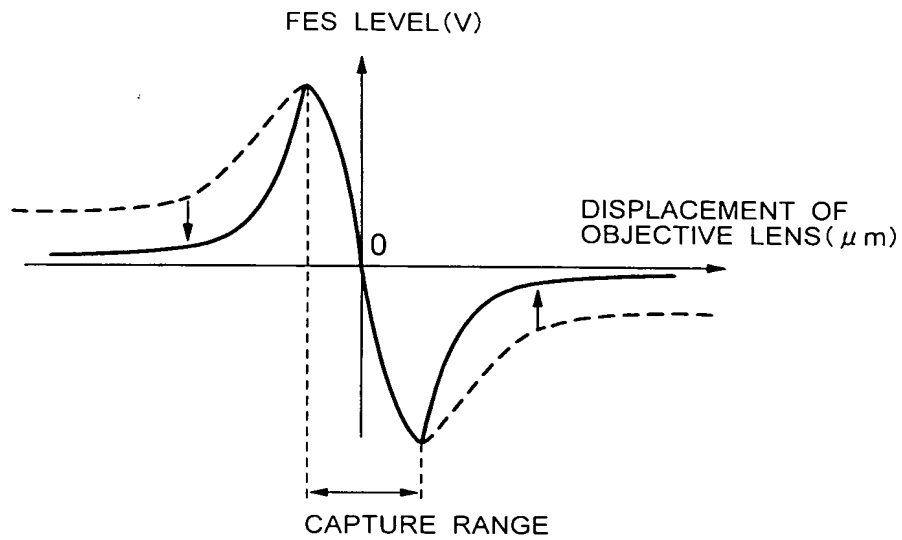


FIG. 26

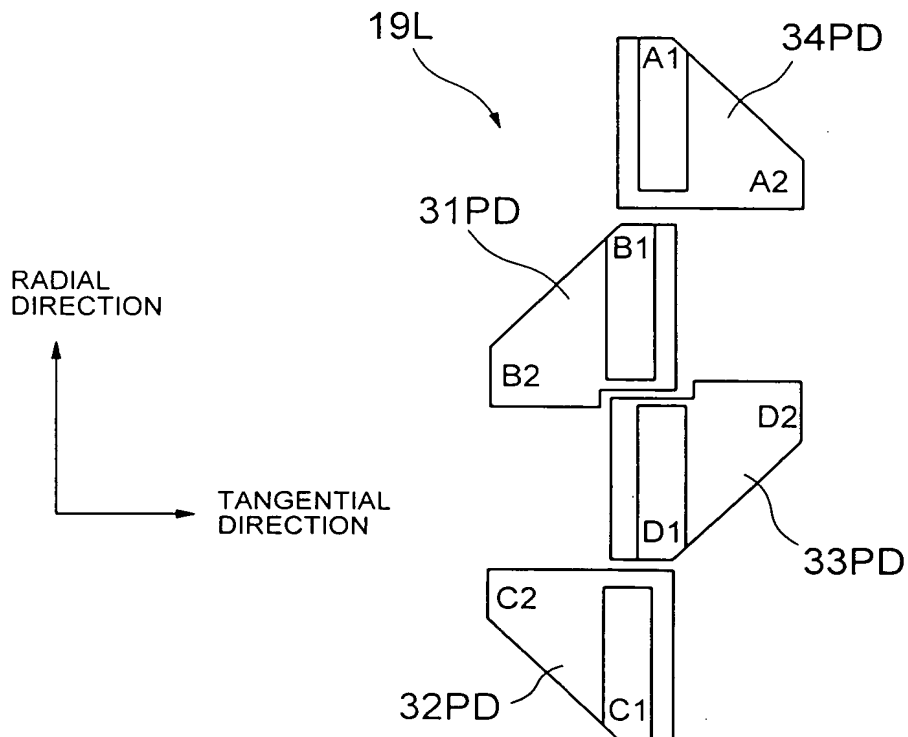


FIG. 27

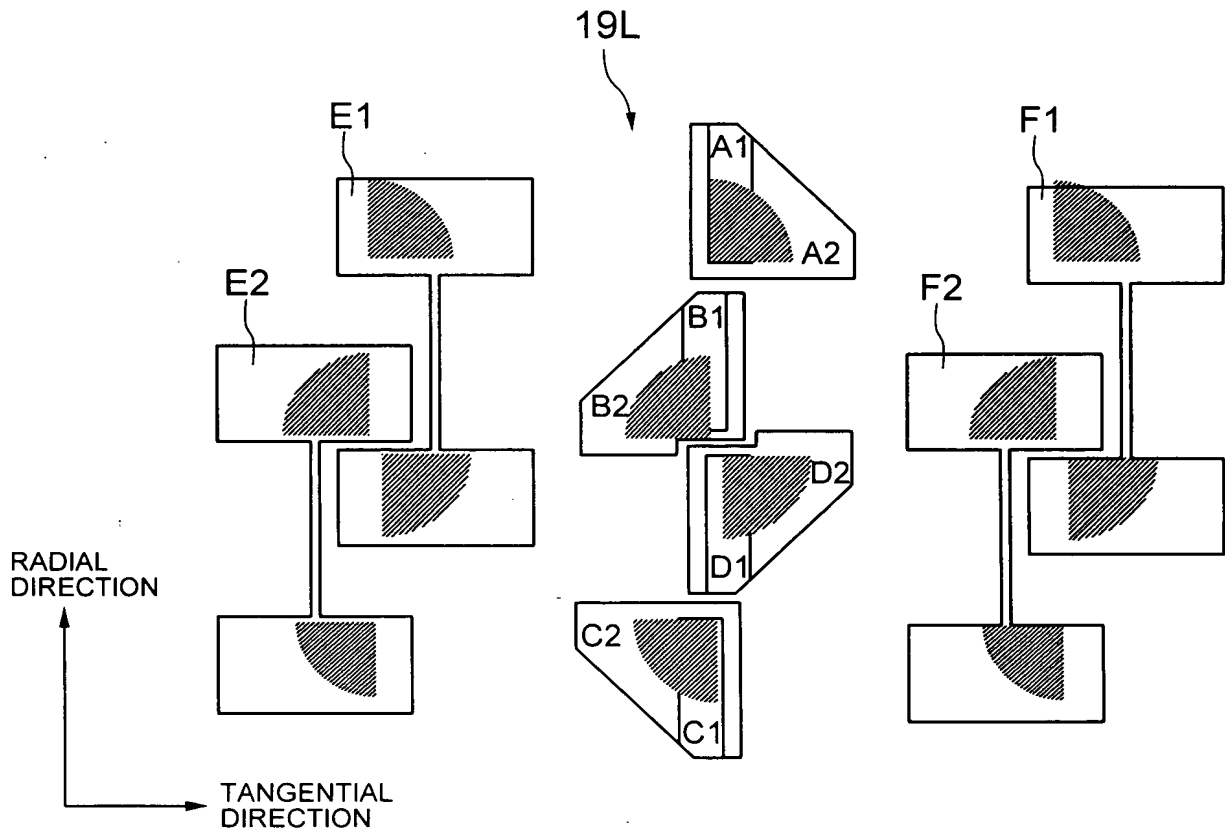


FIG. 28

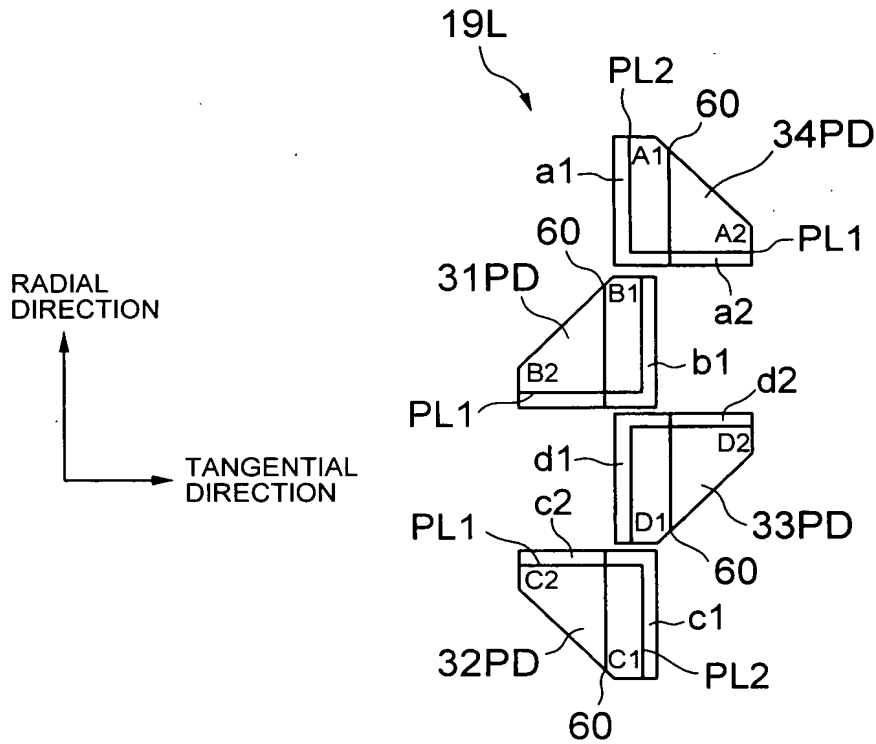


FIG. 29

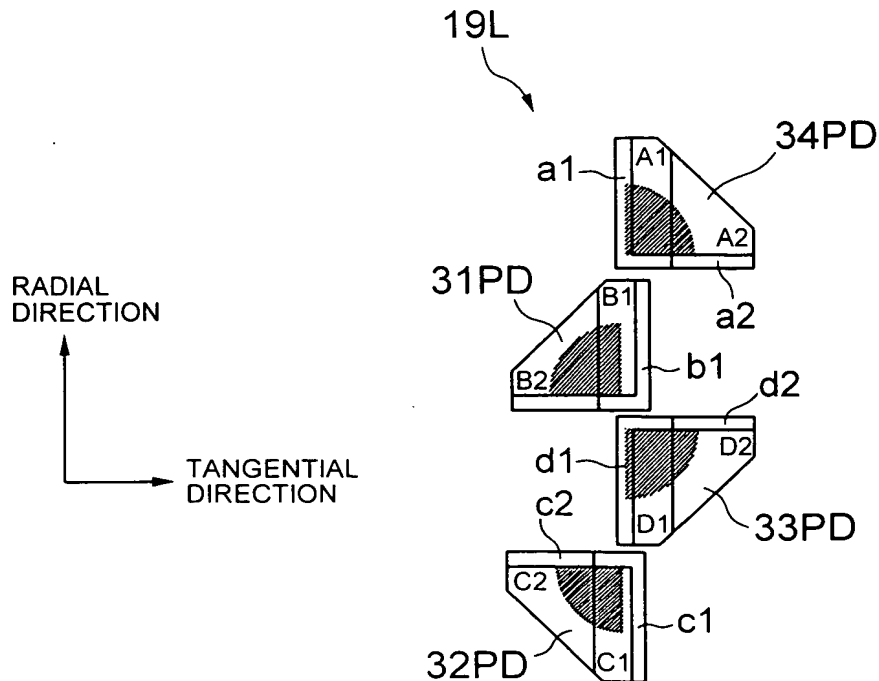


FIG. 30A

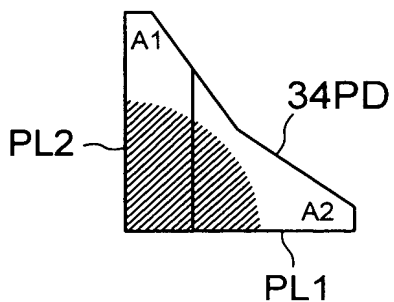


FIG. 30B

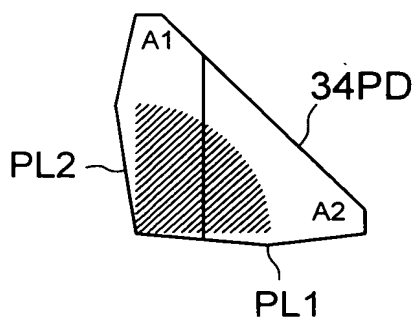


FIG. 30C

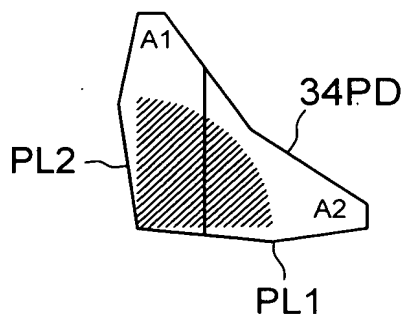


FIG. 30D

